

e. The lashing shall be marked with its rated load.

f. Forged steel wire rope clips shall be used to secure the ends of wire rope lashing. The rated load shall be reduced by 20 percent or by the D/d efficiency factor, whichever is greater. Properly tied standard knots or hitches (square knots backed up with half hitches, bowlines, clove hitches, etc.) may be used to secure synthetic rope and webbing lashing. When knots are used, the rated load of the lashing shall be reduced by 50 percent.

g. The additional force due to lift angles in the lashing configuration shall be taken into consideration to ensure the rated load (or reduced rated load) of the lashing is not exceeded.

14.14 Critical Non-Crane Rigging Operations. Critical non-crane rigging operations are defined as rigging tasks that involve a higher than normal level of risk. These operations, if done improperly, could result in personnel injury, significant component damage, or overload to rigging equipment or the supporting structure. These operations include:

a. Rigging that requires precise movement of the load due to tight-tolerance fit-up and rigging gear is the primary method to control alignment. Does not normally include components installed on studs/fasteners, routine installation of pumps, motors, rotors, or when guide pins are used to control alignment.

b. Handling of sensitive electronic cabinets/equipment where overhead clearances are minimal and require special handling arrangements.

c. First time or infrequently performed rigging tasks that require more than normal planning, preparation and/or operational risk management.

d. Rigging of unusually expensive or one-of-a-kind equipment or components.

e. Personnel suspended from rigging.

f. Rigging of hazardous materials such as poisons, corrosives, highly volatile substances, etc. Does not include oxygen, acetylene, propane, diesel fuel, gasoline in cans, or tanks that are properly secured in racks or stands designed for lifting/handling.

g. Other pre-identified rigging operations involving non-routine or specialized handling requirements, or unusual risk.